

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
ROSS A. DANNENBERG
BANNER & WITCOFF, LTD.
11TH FLOOR
1001 G STREET, NW
WASHINGTON, DC 20001-4597

RECEIVED

APR 02 2008

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PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 003797.01069	Date of mailing (day/month/year)
International application No. PCT/US04/19109	FOR FURTHER ACTION See paragraphs 1 and 4 below International filing date (day/month/year) 28 July 2004 (28.07.2004)
Applicant MICROSOFT CORPORATION	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland. Facsimile No.: (41-22) 338.82.70.

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
 - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90b6.1 and 90b6.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Kce Tung Telephone No. (571) 272-2600
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Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
ROSS A. DANNENBERG
BANNER & WITCOFF, LTD.
11TH FLOOR
1001 G STREET, NW
WASHINGTON, DC 20001-4597

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 003797.01069	Date of mailing (day/month/year) 31 MAR 2008 FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/19109	International filing date (day/month/year) 28 July 2004 (28.07.2004)
Applicant MICROSOFT CORPORATION	

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Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

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1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.

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- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
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See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Kee Tung Telephone No. (571) 272-2600
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Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 003797.01069	FOR FURTHER ACTION <small>see Form PCT/ISA/226 as well as, where applicable, item 5 below.</small>	
International application No. PCT/US04/19109	International filing date (day/month/year) 28 July 2004 (28.07.2004)	(Earliest) Priority Date (day/month/year) 23 October 2003 (23.10.2003)
Applicant MICROSOFT CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

- a. With regard to the language, the international search was carried out on the basis of:



the international application in the language in which it was filed.



a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

- b. ☐ This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 Rule 43.6 bis(a)

- c. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I

2. ☐ Certain claims were found unsearchable (See Box No. II)3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 2



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19109

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

A method and system for rendering a desktop on a computer using a composited desktop model operating system are disclosed. A composited desktop window manager (190), upon receiving base object and content object information for one or more content objects from an application program, draws the window (301) to a buffer memory, and takes advantage of advanced graphics hardware and visual effects to render windows based on content on which they are drawn. The frame portion (303) of each window (301) may be generated by pixel shading a bitmap having the appearance of frosted glass based on the content of the desktop on top of which the frame is displayed. Legacy support is provided so that the operating system can draw and render windows generated by legacy applications to look consistent with non-legacy application windows.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19109

A. CLASSIFICATION OF SUBJECT MATTER IPC: G06T 15/00(2006.01),15/50(2006.01),17/00(2006.01),17/20(2006.01);G09G 5/00(2006.01);G06F 3/048(2006.01) USPC: 345/419,423,426,428,582;715/765 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 345/419,423,426,428,582;715/765 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched POLEY, COMPUTER GRAPHICS: PRINCIPLES AND PRACTICE Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) IEEE, ACM, GOOGLE.COM		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Hoppe, Hugues. Progressive Meshes. ACM. 1996. p. 100-102	1-34
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with this application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "Z" document member of the same patent family		
Date of the actual completion of the international search 04 March 2008 (04.03.2008)		Date of mailing of the international search report 31 MAR 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Authorized officer Kee Tung Telephone No. (571) 272-2600

Form PCT/ISA/210 (second sheet) (April 2007)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
ROSS A. DANNENBERG
BANNER & WITCOFF, LTD.
11TH FLOOR
1001 G STREET, NW
WASHINGTON, DC 20001-4597

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference 003797.01069		Date of mailing (day/month/year) 31 MAR 2008	
International application No. PCT/US04/19109		FOR FURTHER ACTION See paragraph 2 below	
International filing date (day/month/year) 28 July 2004 (28.07.2004)	Priority date (day/month/year) 23 October 2003 (23.10.2003)		
International Patent Classification (IPC) or both national classification and IPC IPC: Please See Continuation Sheet USPC: 345/419,423,426,428,582,715/765			
Applicant MICROSOFT CORPORATION			

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority (IPEA) except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion 04 March 2008 (04.03.2008)	Authorized officer Kee Tung Telephone No. (571) 272-2600
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Form PCT/ISA/237 (cover sheet) (April 2007)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/19109

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:
- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. ☐ This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a)).
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:
- a. type of material
- ☐ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☐ on paper
- ☐ in electronic form
- c. time of filing/furnishing
- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.
4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/19109

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 1-34 YES

Claims NONE NO

Inventive step (IS)

Claims NONE YES

Claims 1-34 NO

Industrial applicability (IA)

Claims 1-34 YES

Claims NONE NO

2. Citations and explanations:

Please See Continuation Sheet

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/19109

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of IPC:

G06T 15/00(2006.01), 15/50(2006.01), 17/00(2006.01), 17/20(2006.01); G09G 5/00(2006.01); G06F 3/048(2006.01)

V. 2. Citations and Explanations:

Claims 1-34 have industrial applicability, since they can be used in the computer graphics industry.

Claims 1-34 have novelty, as there is no single reference that anticipates all of their limitations.

Claims 1-34 lack inventive step as explained below:

With respect to claim 11, Hoppe teaches the claimed data processing system comprising: a memory storing window properties comprising, for a plurality of windows for which properties are stored, properties for a base object and properties for one or more primary content objects; a compositing desktop window manager software module that composes a desktop based on the window properties of each window for which properties are stored, wherein for one of the plurality of windows for which properties are stored, the memory stores a plurality of primary content objects. This is shown as a base mesh and selective refinement. Windows are not explicitly taught but are well-known in the art.

Claim 12 further requires the data processing system of claim 11, wherein the properties for the base object comprise a base geometry. Hoppe teaches this at page 102 section 4 first paragraph.

Claim 13 further requires the data processing system of claim 11, wherein the properties for the base object comprise base content margins, a base extent, and a base material. Hoppe teaches this at section 4 with the teaching of "preserving both the shape of the mesh and the scalar and discrete attributes which define its appearance."

Claim 14 further requires the data processing system of claim 12, wherein the base geometry property comprises a plurality of vertices defining a mesh. Hoppe teaches this at figures 1 and 2.

Claim 15 further requires the data processing system of claim 13, wherein the base material property comprises

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/19109

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

an ambient color, a diffusive color, and a specular color. Hoppe teaches this at the abstract and at page 100 section 2. It is further noted that the use of specular color is well-known in the computer graphics art.

Claim 16 further requires the data processing system of claim 15, wherein each of the ambient color, diffusive color, and specular color are defined at least by an ARGB value. Hoppe teaches this at section 2 with shader functions. It is very common in the art to use an ARGB value in a shader.

Claim 17 further requires the data processing system of claim 13, wherein the base material property comprises a reflection scalar and a refraction index. Hoppe teaches this at section 2 with material identifiers, reflection and refraction being inherent in material properties.

Claim 18 further requires the data processing system of claim 13, wherein the base material property comprises a diffuse texture and a bump texture. Hoppe teaches this at section 4.5.

Claim 19 further requires the data processing system of claim 11, wherein the memory stores, for at least one primary content object, a content geometry and a content surface. Hoppe teaches this at the abstract.

Claim 20 further requires the data processing system of claim 19, wherein the content surface comprises an ARGB texture. Hoppe teaches this at section 2 with shader functions, and it is well-known in the art that shader functions use ARGB.

Claims 1, 21 and 31 are similar to claim 11 and similar rationale applies.

Claims 2-10 and 22-29 are similar to claims 13-20 and similar rationale applies.

Claim 30 further requires the method of claim 23, further comprising: receiving user input to resize the window; dividing the mesh into three regions per mesh dimension; for each region, maintaining offsets of mesh vertices in any dimension by which the region is bounded by a bounding box of the window, and scaling mesh vertices in any dimension by which the region is not bounded by the bounding box of the window. Hoppe teaches this at figures 1 and 2, and at sections 3 and 4, and windows are well-known in the art as previously stated.

Claim 31 is similar to claim 30 and similar rationale applies.

Claim 32 further requires the method of claim 31, wherein the regions are equally sized. Hoppe teaches this at section 4.1 with official notice that regular meshes are equally sized.

Claim 33 further requires the method of claim 31, wherein the regions are not equally sized. Hoppe teaches this at figure 1.

Claim 34 further requires the method of claim 33, wherein regions bounded by the bounding box are as small as necessary to encompass material that should not be scaled. Hoppe teaches this at the abstract as preservation.

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more information, see the Guide to the publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the Rules on the following pages.

AMENDMENTS CONCERNING AMENDMENTS UNDER ARTICLE 19¹

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, on the basis of the international search report, requested that the international application be amended. Since the international application (claims, description and drawings) of the claims under Article 19 of the EPC, since its preliminary examination procedure, there is usually no need to propose of provisional protection or an exception, where, as the applicant wants the latter to be publication. Furthermore, it should be emphasized that provisional protection for amending the claims before national courts is not allowed where the applicant has not requested provisional protection (see, for example, *PCT Applicant's Guide*, Volume IV, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that, according to the evidence submitted, the International Searching Authority has declared, under Article 17(2), that no international search report would be

Can a constitutional amendment be amended?

...the claims may be amended,

Under Article 19, only the claims may be amended.

Upon entry into the national ph

When ?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having whichever time limit expires later if they are received by the International Bureau after the expiration of the applicable time limitation for amendment.

How do we file the amendments?

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the

International Searching Authority (hereafter referred to as ISA) has been filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

of more of his clients are women.

[illegible]

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How many amendments?

What documents have you?

The amendments must be submitted with a letter.

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM FCT/SA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (if being understood as amended), the reasons for the amendments, i.e. the reasons why the amendments are necessary.

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

(v) the claim is the result of the division of a claim as new.

- [illegible]

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)). The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.
It must be brief, not exceeding 500 words in English or if translated into English,
it shall not be confused with and does not replace the balance indicating the differences between the claims as filed
and the amendments. It must be filed on one sheet and may be divided into several parts, each part being preceded by a heading, preferably by
referring to Article 84(1) of the EPC.

You may not contain any disparaging comments on the international search report or the relevance of citations
contained in that report. Reference to citations relevant to a given claim, contained in the international search
report, is permitted.

Introduction

If a demand for international preliminary examination was already filed under Article 19, a demand for such examination may also be filed at a later date.

(c) At the time of filing any amendments and any accompanying statements, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of submitting those amendments and/or statements, also file with the International Bureau, also file with the International Searching Authority (and say statement), where required, a copy of such amendments (and of any statement) and, where required, a copy of the amended claims, all as they stand after amendment by the International Examining Authorities before the procedure begins; see Rule 55.3(a) and G-2.2, first paragraph, of the Rules Governing the Patent Cooperation Treaty (PCT).

The fees to be deposited from IN-CENTRE/A01:

a ground for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as the International Searching Authority and where it has notified the International Bureau under Rule 62.1(a), be taken into account by the International Preliminary Examining Authority. If the international preliminary examination is to be a written opinion of the International Preliminary Examining Authority, a copy of the international preliminary examination report, together with the written opinion of the International Preliminary Examining Authority, shall be sent to the applicant as soon as possible after the expiration of 3 months from the date of mailing of Form P/ISA/220, with amendments before the expiration of 22 months from the priority date, and, unless express later (Rule 43bis.1(c)), 17/MSA/220 or before the expiration of 22 months from the priority date, and, unless express later (Rule 43bis.1(c)).

the entry into the national phase

the applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, a with regard to translation of the international application.

For further details on the requirements of each designated/checked Office, see the *PCT Applicant's Guide*, volume II.